Royale Limousine - MKT Owner's Guide

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Congratulations on Your Purchase of a Royale Limousine Manufactured Where Craftsmanship Counts!

Since 1983 Royale has been manufacturing the finest limousines in the world and backing each with exceptional service. It is my true belief that Royale's exceptional service will encourage you to purchase your future limousines from us. That is why we have compiled this comprehensive manual; to help you with questions you may have concerning your new limousine.

Please take a few minutes to review this manual which is full of useful tips, operational instructions, and wiring schematics. The Table of Contents allows you to easily navigate to the section of interest by using the built-in links. There are also embedded quick links so you can contact us should you have any questions.

I welcome your comments as we are constantly striving to improve our processes, products and service.

Congratulations and enjoy your new limousine hand-crafted and manufactured by Royale.

Best Regards,

Cabot Smith
President

Cadillac

Have Questions? A Royale Team Member is Ready to Help.

Managers

Please feel free to contact the following Managers with any questions or concerns.

Cabot Smith, President
ph. 978.374.4530 x 19
e-mail: cabot.smith@royalelimo.com

Steve Edelmann, Director of Sales
ph. 978.374.4530 x16
e-mail: steve@royalelimo.com

Jeff DeMarco, Director of Operations
ph. 978.374.4530 x 25
e-mail: jeff@royalelimo.com

Warranty

For questions regarding warranty service please contact our Warranty Department.

Ask for Service
ph. 978.374.4530 x20
e-mail: service@royalelimo.com

A representative will be able to help you locate a regional authorized service facility for limousine repairs or your regional Cadillac or Lincoln dealers. Also our web site offers a list of your regional authorized service facilities at:

www.royalelimo.com/service/dealers.aspx

Warranty service must be authorized in advance before Royale will accept any charges.

Parts

If you need replacement parts for your limousine call the number below. We ship parts daily all over the world and accept Visa and Master Card for your convenience.

Ask for Parts
ph. 978.374.4530 x15
e-mail: parts@royalelimo.com

Sales

If you have a sales question or would like copies of your sales documents you can contact your salesperson by calling or e-mailing them directly. If you misplaced your salespersons e-mail address you can find it at:

www.royalelimo.com/company/consultants.aspx

Ask for Sales
ph. 978.374.4530
e-mail: sales@royalelimo.com

Helpful Hints and Recommendations

Here are some helpful hints to help you maintain your Royale limousine and avoid some of the problems that might arise.

Watch the tire pressure closely, rotate tires frequently every 5,000 miles or as recommended in OEM manual. Royale recommends the following tire pressures for your limousine unless otherwise indicated on the vehicle label.

Tire Pressure

- 42 lbs. for Lincoln MKT

Other

You can save fuel by keeping your idling time to a minimum. According to the California Energy Commission "vehicle idling burns about a half mile of gasoline for every minute of idling."

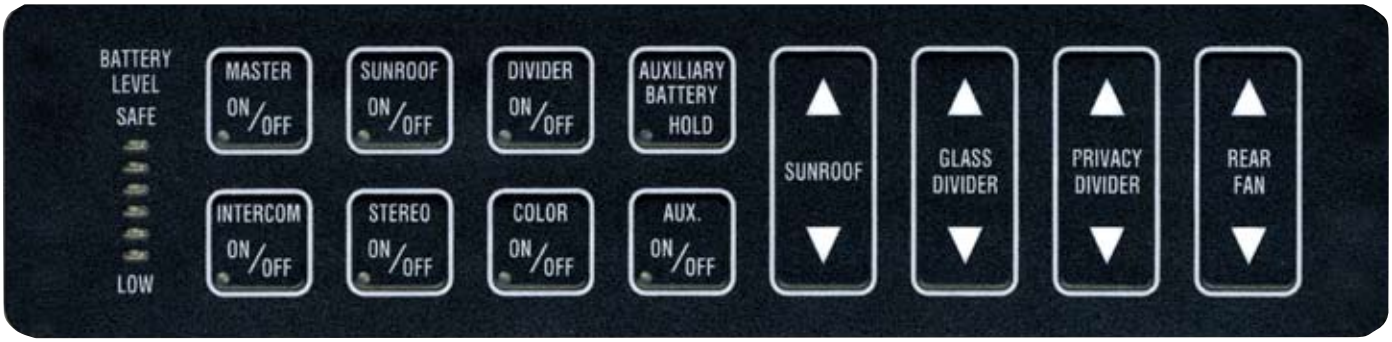
- When using the air conditioner in warm weather, keep the engine idle up if stopped and waiting.
- Keep the battery cables clean and tight.
- Change the oil and grease every 3,000 miles including drive shaft grease fittings.
- Align the front end at recommended intervals, realign after first 5,000 miles.
- Keep extra fuses in glove box. Keep a spare set of keys available.
- Wash the vehicle with proper products. Do not wax the car for 90 days. Read the Paint Guide Lines.
- Clean and sanitize cooler drains and drink dump drain frequently to insure proper draining.
- Have only qualified mechanics work on your limousine.
- Worn or broken trunk weather strips may cause trunk water leaks, inspect trunk weather strips frequently.

- Follow the original manufactures recommended maintenance program for your vehicle.
- Clean and lubricate moon roof cables and slides weekly and blow out moon roof drains frequently.
- Please read your Royale Limousine U.S. New Vehicle Limited Warranty. We offer a 60-month/150,000 mile limited warranty on our structural modifications and a 24-month/50,000 mile limited warranty on the conversion components.

NOTE: It is important that you contact our Warranty Department before any warranty repair work is performed.

Contact the Warranty Department for your authorization at 978.374.4530 or service@royalelimo.com

Control Panel Users Guide - Driver *(Standard Equipment)*



Driver's Control Panel

Battery Level Indicator

These indicator lights notify you of the charging condition of your battery. When the battery voltage is high green lights are lit, which indicates a normal operating condition. When the voltage drops the yellow lights come on notifying you that the voltage is low. You should try to run up the idle if in park or shut off rear features to bring the battery voltage up to green. The red lights indicate that voltage is low, stalling may occur if this condition continues, the driver should increase the idle if possible or shut off rear features. If the driver does not act then the rear cabin air conditioning fans will be shut down automatically until the system returns to normal levels.

Master Switch

This switch controls the power to the entire system. Press this switch to activate power to the controls and rear features including TV, Stereo, Lighting and Air Conditioning.

Intercom On/Off

This button turns on the front-to-rear hands free intercom. Pressing the button will activate the intercom and will illuminate the green indicator light. With the light on speak freely toward the button to communicate with the rear passengers. Press the button again to shut off the two-way intercom.

Sun Roof On/Off

This button controls power to rear cabin sunroof so the rear passenger will not be able to open or close the sunroof. Press to activate the sunroof, the indicator light will show green. Press to deactivate or turn off the sunroof and indicator light will be off.

Stereo On/Off

This button controls the power to the rear stereo so the rear passenger will not be able to use the rear stereo system. Press to activate rear stereo system and the indicator light will show green. Press again to deactivate the rear stereo system and the indicator light will be off.

Divider On/Off

This button controls power to the dividers so the rear passengers will not be able to control the dividers. Press to activate the divider system and the green light indicates divider power is active. Press again to deactivate turn off the dividers and the indicator light will be off.

Color On/Off

This button controls the color effects of the accent lighting system. Press this button to change the color effects, there are multiple effects depending upon the initial set up of the system. Refer to page 18 of this manual "Operating the LED Fiber Illuminator" to change your systems setup.

Auxiliary Battery

Your MKT is equipped with battery saver technology. It does not require the use of the Auxiliary Battery button to activate it. If the courtesy lamps, domes lamps or headlamps are left on, the battery saver will shut them off 10 minutes after the ignition has been turned off. If you shut off the engine and leave the ignition in the on or accessory mode, the ignition will shut off after 30 minutes. Keep the limousine power panel in the off position when not in use to improve battery life.

Auxiliary On/Off (Aux)

This button is reserved for future or additional features.

Sun Roof

This button operates rear cabin sunroof. Press and hold up to open and press and hold down to close.

Glass Divider

This button operates the clear glass divider. Press and hold up to raise and press and hold down to lower.

Privacy Divider

This button operates the solid privacy divider. Press and hold up to raise and press and hold down to lower.

Rear Fan

This button operates the rear fan for climate control in rear compartment. Once rear system is activated, the rear fan velocity can be adjusted from the driver control panel. Press up to increase airflow, down to decrease airflow. The A/C or heat is set from it's last position and can only be changed from the rear.

Control Panel Users Guide - Passenger *(Standard Equipment)*

Passenger's Control Panel

Passenger's Lighting Control Panel

Rear control panel features indicated with * are overridden by the drivers master control panel located in the front compartment. These features as well as the rear stereo may be deactivated at the driver's discretion.

Dome Light

This button controls the rear dome lights. Press and hold up and the dome light(s) come on and press and hold down to turn the dome light(s) off.

Accent Lights

This button controls the accent or fiber optic lights in the console and above the windows. These lights are dimmed when the down button is pressed and brightened when the up button is pressed.

Floor Lights

This button controls the rear floor lights. Press up and the floor lights come on and down to turn the floor lights off. The floor lights also come on automatically when the rear doors are open.

Console Lights

This button controls the lights in the console to provide light for easy viewing of glassware and coolers at night. These lights are dimmed when the down button is pressed and brightened when the up button is pressed.

Sunroof*

This button controls the sunroof, pressing the up arrow will open the sunroof and pressing the down arrow will close the sunroof. Be sure to completely close the sunroof for a tight seal to avoid water leaking in to the limousine.

Passenger's Cimate Control Panel

Heat On/Off

This button activates the rear heat. Press this button to activate the rear heat, press it again to turn the heat off. You may also switch directly to A/C by pressing the A/C button and the heat will automatically turn off.

A/C On/Off

This button activates the rear air conditioning. Press this button to activate the rear air conditioning, press it again to turn the air conditioning off. You may also switch directly to heat by pressing the heat button without turning off the heat. It may take the system a few minutes to completely circulate the heat out of the system when switching from heat to A/C.

Fan Speed*

This button adjusts the rear fan speed. Pressing the up button adjusts the fan speed faster for more passenger cooling or heat and pressing the down button adjusts the fan speed lower for less cooling or heat.

Privacy Divider*

This button adjusts the privacy divider, pressing up will raise the divider and pressing down will lower the divider.

Glass Divider*

This button adjusts the glass divider, pressing up will raise the divider and pressing down will lower the divider. Glass dividers are not available in some models.

TV *

This button is an optional button that replaces the glass divider button when the limousine is equipped with the retractable TV. Pressing the up button will raise the flat panel TV and pressing the down button conceals the TV.

Intercom On/Off*

This button turns on the rear to front hands free intercom. Pressing the button will activate the intercom and will illuminate the green indicator light. With the light on speak freely toward the button to communicate with the driver. Press the button again to shut off the two-way intercom.

Factory Rear Heat/AC Control

This panel controls the original equipment rear Heat and AC. The driver must allow the rear panel to control the rear heat by pressing CLIMATE/REAR/REAR CONTROL on the drivers display. This will light up the rear panel and the rear passenger will have full control. There is a floor and ceiling setting as well as high low fan speed and automatic temperature control. (see detailed instructions next page)

NOTE: The manual heater control valve (optional) must be in the open or on position and the Royale heat must be on for the Factory Rear Heat to function.

* Rear control panel features can be overridden by the driver's master control panel.

Factory Rear Heater/AC Control

Your MKT is equipped with two independent rear HVAC systems; one is added by Royale and the other is the OEM system installed by Lincoln. The Royale system is operated from the rear control panel as indicated on the pages above. The OEM system is operated in the following manner.

OEM Rear HVAC System Operation

First the driver must turn on the rear control for the rear passenger. There is a sticker placed above the radio with instructions that read:

> For Passenger Control of Rear HVAC
> Press-Climate/Rear/Rear Control.

Following this procedure will turn on the rear control and the indicator lights will be on.

Audio Video System Users Guide

Owners Manuals

Refer to the owners manual for the specific model of your stereo located on our website home page at:

www.royalelimo.com

Select Support on the side bar, and scroll down to:
2013 Model Downloads - Limousine Accessories

Royale
Mobile Offices & Custom | Lincolns | Cadillacs | SUV Limos | Mini Coaches & Vans | HELV | MKT
Special Offers »
Home
Company
Mobile Office & Custom
Pre-Owned Models
Personal Security / Armoring
Support
Subscribe to Mailing List
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JVC KD-AVX77 Owners Manual
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^ Top of Page |
Call us: 1.978.374.4530, or toll free at 1.800.544.5587.

Driver's Touch Control Operation Guide *(Optional Equipment)*

Driver's Touch Control

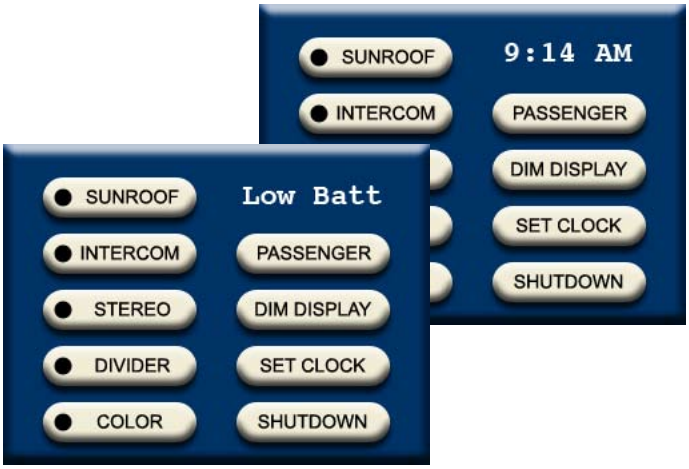
Driver Panel Overview

The Driver Touch Control Panel offers the ability to hide features from the passenger menu by deactivating the feature and hiding the button from the passenger when necessary. It also allows full access to all of the passenger control features through the passenger menu button.

To power the system the driver must accept the responsibility by pressing yes on the Driver Control. After a few seconds the main board and rear control panel will be active.

The Clock is replaced by a battery level indicator to notify the driver of a low voltage condition. When the battery is low the clock will be replaced by LOW BATT indicator requesting the driver to act. If this condition continues stalling may occur, the driver should increase the idle if possible or shut off rear features until a normal level is reached, if the driver does not act then the rear cabin air conditioning fans will be shut down automatically until the system returns to normal levels.

Driver's Main Menu



The Clock is replaced by a battery level indicator to notify the driver of a low voltage condition.

Intercom

This button turns on the front to rear intercom. Pressing the button will activate the intercom and will illuminate the green indicator light. With the light on speak freely toward the button to communicate with the rear passengers. Press the button again to shut off the two-way hands free intercom.

Stereo

This on/off button allows the driver to shut off passenger control of the rear Stereo. By selecting off the rear Stereo will be shut off and the button will be deleted from the passengers menu. Select on and the rear Stereo is returned to normal and the button reappears on the passenger display. A green light indicates the rear Stereo is active.

Divider

This on/off button allows the driver to shut off passenger control of the Dividers. By selecting off the Dividers will be shut off and the button will be deleted from the passengers menu. Select on and the Dividers are returned to normal and the button reappears on the passenger display. A green light indicates the Dividers are active.

Color

This on/off button allows the driver to shut off passenger control of the fiber optic color system. By selecting off the fiber optic color system will be shut off and the button will be deleted from the passengers menu. Select on and the fiber optic color system is returned to normal and the button reappears on the passenger display. A green light indicates the rear system is active. The actual function of this button is affected by the set up of the LED illuminator (see page 18) "Operating the LED fiber Illuminator."

Sunroof

This on/off button allows the driver to shut off the passenger control of the sunroof. By selecting off the sunroof will be shut off and the button will be deleted from the passenger menu. Select on and the sunroof is returned to normal and the button reappears on the passenger display. A green light indicates the sunroof is active.

Passenger

This button allows the driver to control all passenger functions please refer to passenger functions reference guide on page 11 for details. When the driver presses a button in this menu the rear passenger control will follow along allowing the driver to assist the passenger in navigating through the menus.

Dim Display

This button allows the driver to dim or brighten the display. Follow the easy to read menu to adjust the display.

Set Clock

This button allows the driver to reset the clock. Follow the easy to read menu to reset the clock.

Shut Down

This button allows the driver to shut down the entire system when not in use. This is always a good idea to conserve resources and charge the battery. The clock will still display in shut down mode..

Passenger's Touch Control Operation Guide *(Optional Equipment)*

Passenger Panel Overview

The driver has full access to the passenger controls from the driver panel. When the driver adjusts passenger features his/her actions will be displayed on the rear controls. This is to assist the passengers with navigating the Touch Control's many features.

Passenger's Touch Control panel

Climate Control Menu

The Climate Control Menu adjusts the climate in the rear cabin and activates the intercom.

A/C

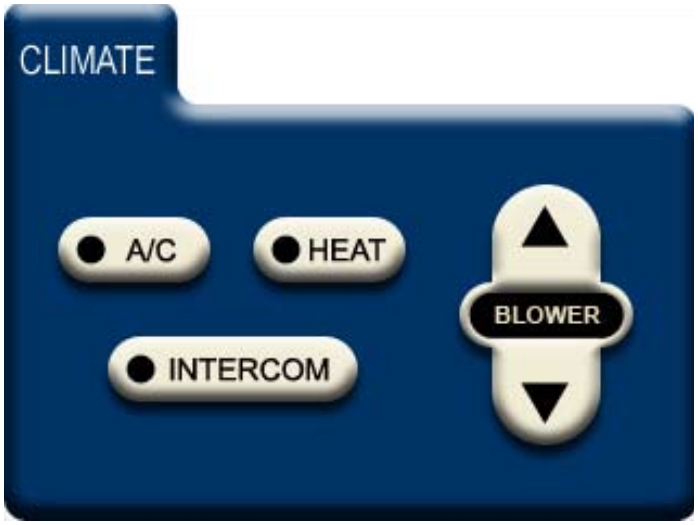
This button activates the rear air conditioning. Press this button to activate the rear air conditioning, press it again to turn the air conditioning off. The green light indicates air conditioning is on. You may also switch directly to heat by pressing the heat button which will automatically turn off the air conditioning. It may take the system a few minutes to completely circulate the heat out of the system when switching from heat to A/C.

Heat

This button activates the rear heat. Press this button to activate the rear heat, press it again to turn the heat off. The green light indicates heat is on. You may also switch directly to A/C by pressing the A/C button which will automatically turn off the heat.

Blower

This button adjusts the rear fan speed. Pressing the up button adjusts the fan speed faster for more passenger cooling or heat and pressing the down button adjusts the fan speed lower for less cooling or heat.



Passenger's Climate menu

Intercom

This button turns on the rear to front intercom. Pressing the button will activate the intercom and will illuminate the green indicator light. With the light on speak freely toward the button to communicate with the driver. Press the button again to shut off the two-way hands free intercom.

Media Menu Overview

The Media menu controls the media system features of your limousine including your Stereo, DVD, TV, VCP and CD. This menu uses easily recognizable icons to control its functions. Many of the buttons on each menu are self explanatory so there is a description only for the buttons that require more information. Select the Media feature you want to control by pressing the button in the Select menu, a red light will indicate the source is selected.

Select RADIO Menu

Source

This button changes the Stereo source. The rear Stereo has several input sources available; AUX is generally the last source in the sequence. The normal sequence for the Stereo sources are as follows; FM/AM, Sirius/XM, DISC, CD Changer, IPOD, Auxiliary In. Press the source button until the desired source is selected.

Select DVD Menu

Channel (CHAN)

This button will advance to the next frequency or find the next local channel depending upon how the Stereo search is pre-set on the stereo.

Power (PWR)

This button will turn the DVD player on or off. The default source of the DVD player is DVD. Press this button to turn the DVD player on and insert a disc.

Volume (VOL)

This button controls the DVD volume. Press the up arrow for more volume and the down arrow for less volume.

Select CD Menu

VOL

This button controls the CD volume. Press the up arrow for more volume and the down arrow for less volume. By inserting a CD the Stereo source will automatically change to CD and begin play.

Select VCP Menu

Power (PWR)

This button will turn the VCP on or off. The Source must be set to AUX. See instructions in Radio Source for more information.

Divider Menu

The Divider menu controls the mechanical features of your limousine including the dividers, sunroof and optional 20" TV.

Retractable TV

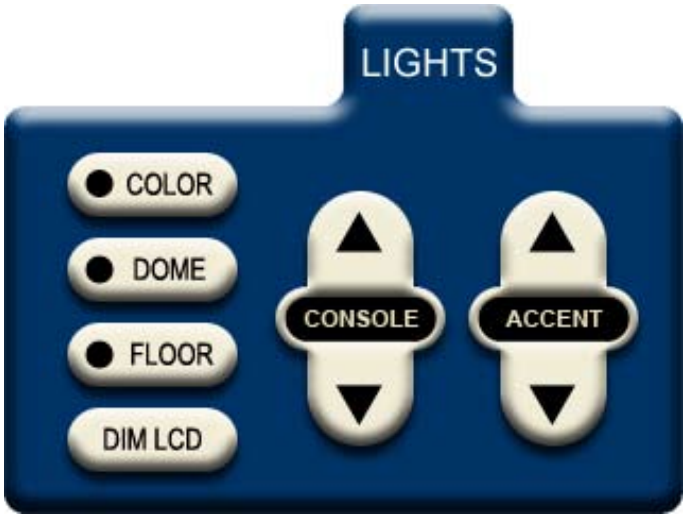
Behind the Privacy Divider glass may be the optional 20″ TV. Press the up arrow to raise the divider and turn the TV on with the DVD Power on button. The TV will light up exposing it from behind the divider smoked glass. Press the down arrow to lower the divider.

divider up TV on

divider up TV off

Lights Menu

The Lights Menu controls the rear lighting systems. Some of the lighting systems are dimmable while others are not.



Color

This button controls the color effects of the accent lighting system. Press this button to change the color effects, there are multiple effects depending upon the initial set up of the system. Refer to "Operating the LED Fiber Optic Illuminator on page 18 of this manual to change your systems setup.

Dome

This button controls the rear dome lights. Press this button to turn on the rear dome lights, press it again to turn the dome lights off. The green light indicates the lights are on. Some dome lights can also be turned on manually by rotating the light right or left.

Floor

This button controls the rear floor lights. Press this button to turn on the rear floor lights, press it again to turn the floor lights off. The green light indicates the lights are on. The floor lights also come on automatically when the rear doors are open.

Dim LCD

This button allows the rear passenger to dim or brighten the display. Follow the easy to read menu to adjust the display.

Console

This button controls the lights in the console to provide light for easy viewing of glassware and coolers at night. These lights are dimmed when the down arrow is pressed and brightened when the up arrow is pressed.

Accent

This button controls the accent or fiber optic lights in the console and above the windows. These lights are dimmed when the down arrow is pressed and brightened when the up arrow is pressed. To adjust the color or light systems see the Color button above.

Divider Menu

The Divider menu controls the mechanical features of your limousine including the dividers and sunroof.

Privacy Divider

This button controls the privacy divider, pressing the up arrow will raise the divider and pressing down arrow will lower the divider.

Glass Divider

This button controls the glass divider, pressing the up arrow will raise the divider and pressing down arrow will lower the divider. Glass dividers are not available in some models.

Sun Roof

This button controls the sunroof, pressing the up arrow will open the sunroof and pressing the down arrow will close the sunroof. Be sure to completely close the sunroof for a tight seal to avoid water leaking into the limousine.

Advanced Lighting and Fan Speed Features

User programmable start up features are available by adjusting the DIP switches located on the main circuit board, upper left corner labeled "OPTIONS," the operator may change how the rear lighting and fan speeds are initiated on vehicle start up. Factory preset switches are indicated with an *. For an additional charge the memory chip may be reprogrammed at the factory to a custom setting. Call your factory representative for details.

Fan Speed

DIP 1 Set in On position adjusts the fan speed to ON at start up.

DIP 1* Set in Off position adjusts the FAN Speed to Off at start up.

Accent and Console Lights

DIP 2 * Set in On position adjusts the Accent and Console lights ON at start up.

DIP 2 Set in Off position adjusts the Accent and Console lights Off at start up.

Other Programming

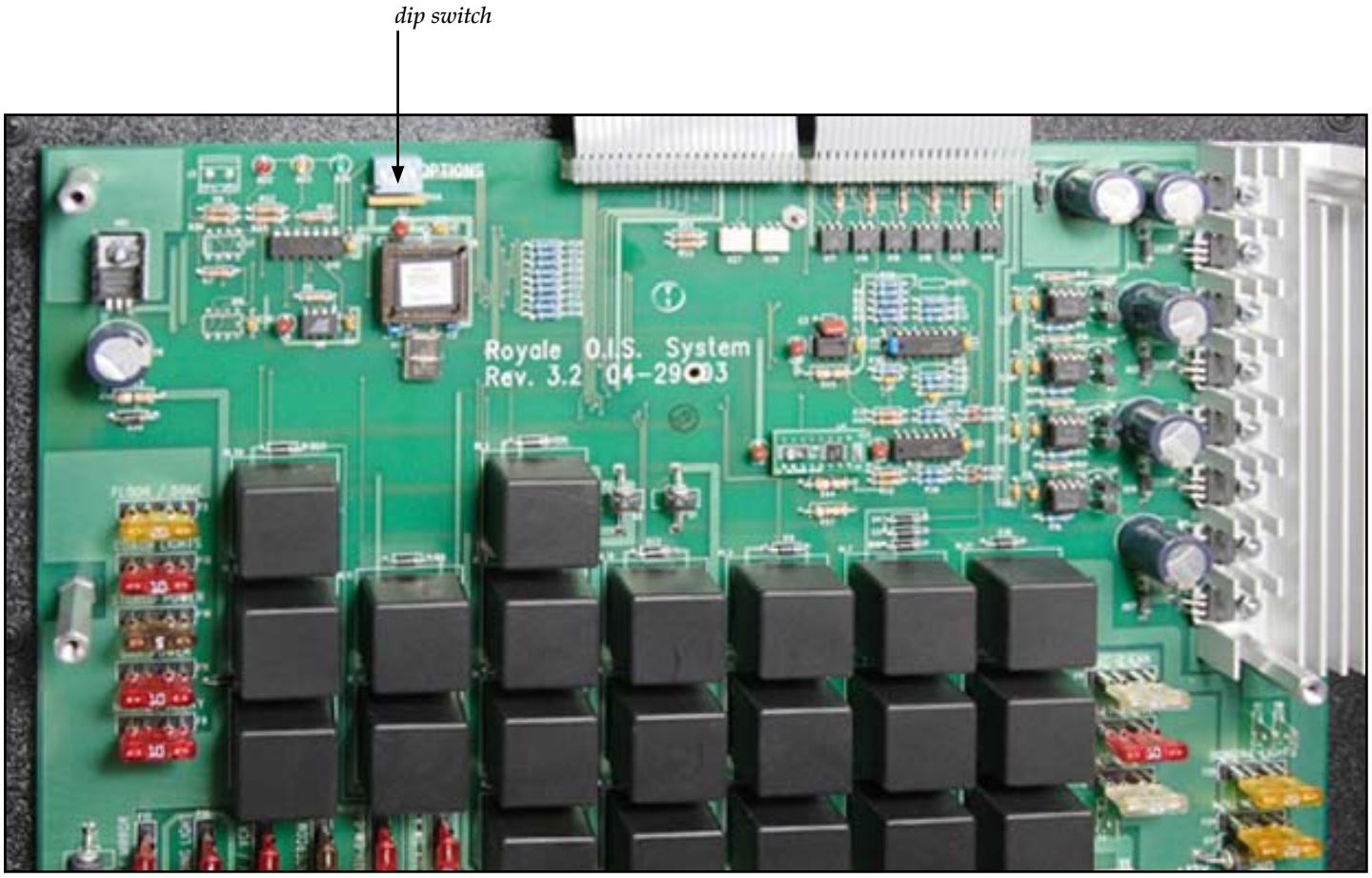
DIP 3 Set in On position reserved for future programming features

DIP 3 * Set in Off position reserved for future programming features.

DIP 4 Set in On position reserved for future programming features

DIP 4 * Set in Off position reserved for future programming features

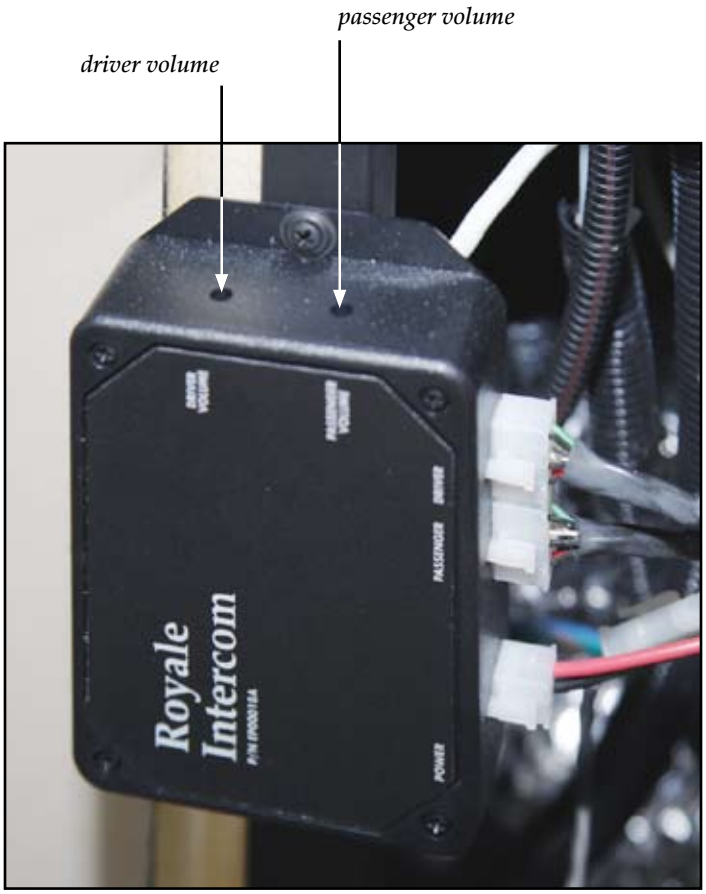
*Factory preset switches



The main circuit board is located behind the front passenger seat.

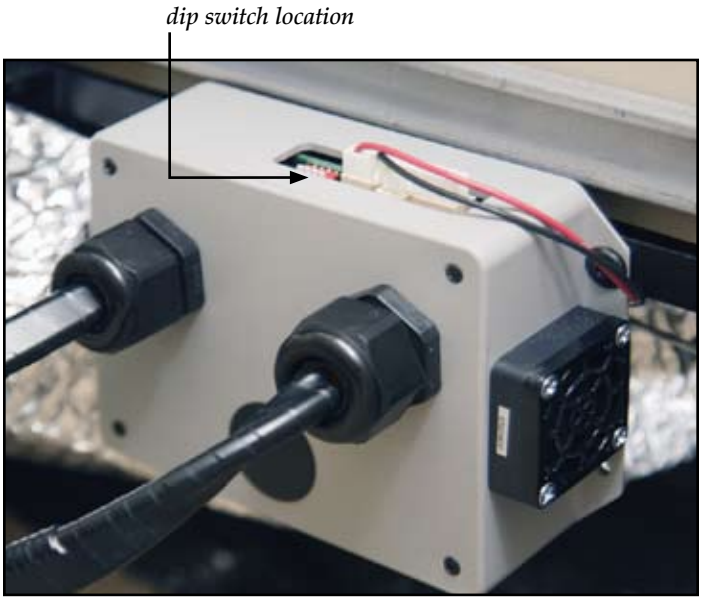
Intercom Adjustments

The Royale hands free intercom control box is located on the divider behind the driver's seat. There are two adjustments one for driver volume and one for passenger volume. Adjust these according to your preference.



Operating The LED Fiber Illuminator

Your new limousine may be equipped with a LED Fiber Optic Illuminator. The lighting functions of this illuminator are user programmable by adjusting the DIP Switch settings found on the illuminator. The illuminator itself is located near the main control board on the divider panel behind the driver's seat at the bottom of the divider.



LED fiber optic illuminator is located behind the drivers seat.

Switch Function Reference Chart

Switch One

All ports the same color, color change speed control

Up: Medium-Speed Motor Emulation (Medium-Speed Color Changing)
Down: Slow-Speed Motor Emulation (Slow-Speed Color Changing)

Switch Two

All Ports Alternating Colors, Color Change Speed Control

Up: Medium-Speed Motor Emulation (Medium-Speed Color Changing)
Down: low-Speed Motor Emulation (Slow-Speed Color Changing)

Switch Three

Color Wheel Motor Control Wire Function

Up: Motor Wire Controls Show Selection (Switch Changes Color Patterns)
Down: Motor Wire Controls 'Color Stop' (Switch Stops Changing Colors)

Switch Four

No Function

NOTE: The DIP Switch as illustrated above has all switches in the "Up" position. On most Switches, "Down" is also marked as "On."

DIP Switch Functions

DIP Switch Number 1

This switch selects the speed of the default color wheel pattern. This is the pattern that emulates a standard motorized color wheel illuminator; in that all ports are the same color at the same time, and the colors morph from one to another in unison. If the DIP switch is up, the medium motor speed is selected. If the DIP switch is down, the slow motor speed is selected.

DIP Switch Number 2

This switch selects the speed of the alternating ports color wheel pattern (a pattern that is part of the rotating show patterns). This is the pattern that is similar to a standard motorized color wheel illuminator, except that all ports are not the same color at the same time they are alternating colors. If the DIP switch is up, the medium motor speed is selected. If the DIP switch is down, the slow motor speed is selected.

DIP Switch Number 3

This selects whether the motor control voltage (if attached) affects the illuminator. If the DIP switch is up, the motor control voltage causes the microprocessor to step through the built-in color patterns or color shows. Every time the voltage on the wire changes, the next pattern in rotation is selected, in this way the functioning as a remote pattern selector. If the DIP switch is down then the motor control voltage acts as a traditional motorized color wheel (i.e. as a "color stop" control), allowing the color change to stop at random under control of the wire voltage.

DIP Switch Number 4

This switch has no function in this release.

NOTE: The DIP Switch as illustrated above has all switches in the "Up" position. On most Switches, "Down" is also marked as "On."

DIP Switch Settings

Factory Default Settings

Dip Switch	1	2	3	4
up	✔	✔	✔	✔
down				

Record your custom settings here.

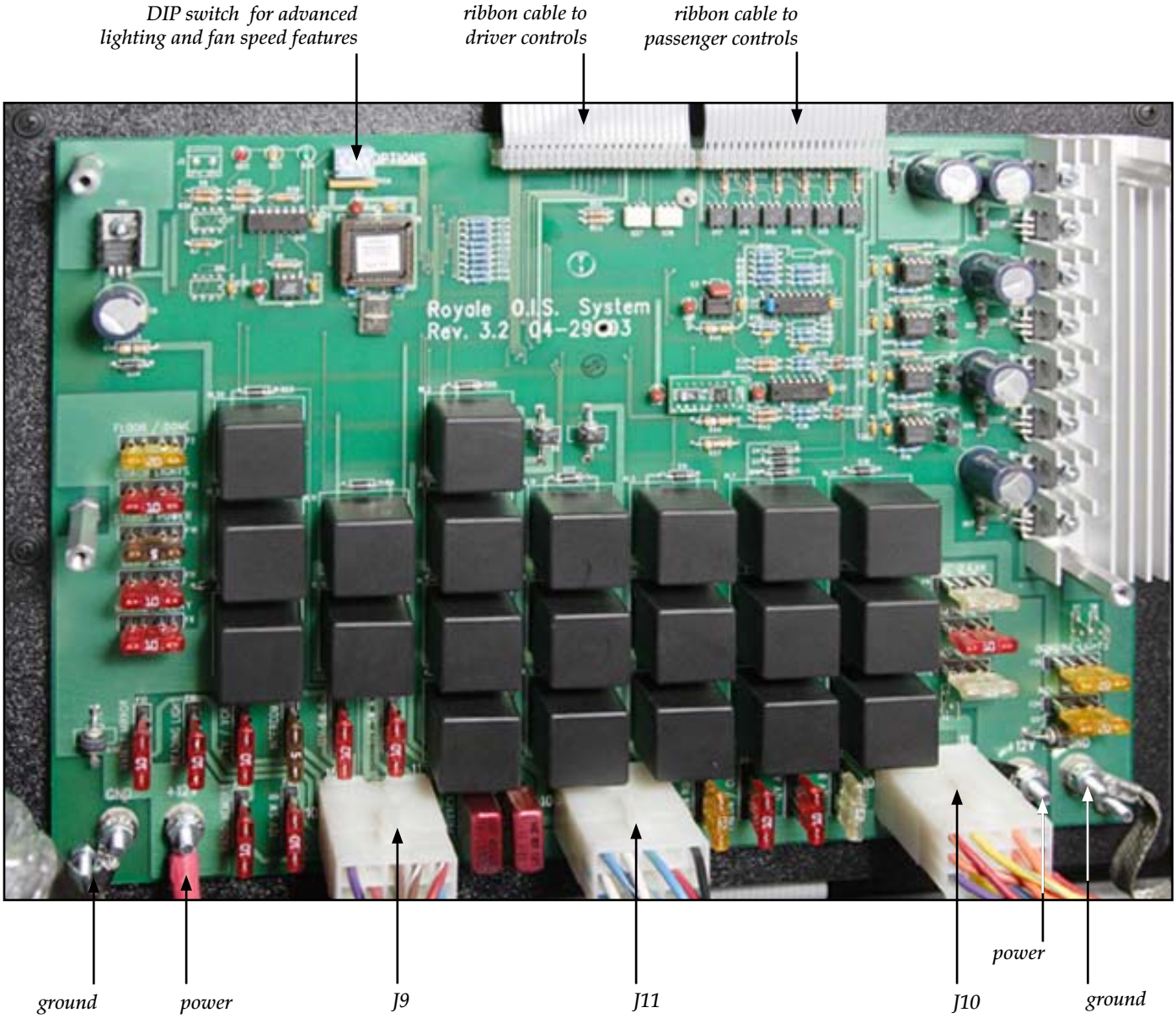
Dip Switch	1	2	3	4
up				
down				

Dip Switch	1	2	3	4
up				
down				

Dip Switch	1	2	3	4
up				
down				

Dip Switch	1	2	3	4
up				
down				

Main Circuit Board Photo



Fuse Values

F1	privacy divider	10 amp breaker
F2	floor and dome lights	20 amp fuse
F3	heat valve	10 amp fuse
F4	a/c clutch-freon value #1	10 amp fuse
F5	a/c #1 fan	25 amp fuse
F6	a/c #2 fan	25 amp fuse
F7	glass divider	10 amp breaker
F8	master relay	10 amp fuse
F9	sunroof motor	20 amp fuse
F10	stereo power	5 amp fuse
F11	led illuminator	10 amp fuse
F12	none	
F13	coach lights	10 amp fuse
F14	intercom	5 amp fuse
F15	TV/VCR	10 amp fuse
F16	reading lights	10 amp fuse
F17	vanity mirror lights	10 amp fuse
F18	12 volts a switched *(sunroof)*	10 amp fuse
F19	12 volts b switched	10 amp fuse
F20	12 volts c switched	10 amp fuse
F21	stereo memory	10 amp fuse
F22	12 volts a *(sunroof memory)*	10 amp fuse
F23	12 volts b *(power port)*	25 amp fuse
F24	accent lights	20 amp fuse
F25	console lights	20 amp fuse

Circuit Board Pin Location · Color · Function

J-9 Plug

1	blue/orange	battery relay
2	yellow/14 gauge	radio memory
3	red/black	TV power
4	green/yellow	vanity light
5	white/blue	reading light
6	blue/red	ignition switch
7		
8	green/white	aux battery power
9	red/14 gauge	stereo power
10	red/black	TV/VCR
11	red/white	12v a switched
12	brown/white	dome light
13	brown	coach light trigger
14	red	12v c switched
15	purple/black	intercom power

J-10 Plug

1	orange/black	console lights
2	green/orange	halo lights
3	blue/white	heat valve
4	yellow/red	12v b
5	violet/white	12v a
6	orange	a/c 1 high
7	orange	a/c 1 high
8		
9		
10	orange	a/c 2 high
11		
12	orange	a/c 1 high
13		
14	yellow/blue	freon valve 1
15	red/yellow	

J-11 Plug

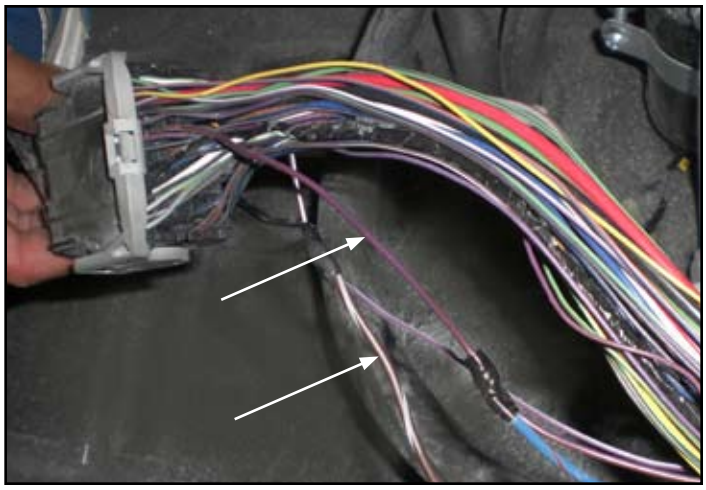
1	green	sunroof (+)
2		
3		
4		
5	blue/brown	privacy
6		
7	red/green	floor light
8		
9	blue/yellow	led illuminator
10	white/brown	privacy
11	black/white	sunroof (-)
12		
13	blue/green	glass motor
14	white/green	glass motor
15	blue/black	floor lights

Main Board Trigger Wire Location – Color – Factory Fuse Location

The trigger wire is a power lead to put initial power to the limousine's Main Circuit Board. This wire is always active as long as the vehicle key is in the on accessory position. This allows the switches to become live so that you can run the systems on the board. Without this wire the main board will not be able to activate. Once the main board is activated the power to operate the systems is drawn from another power source.

Main Trigger Board Wire

· Purple/Brown (heavy gauge) wire located on the driver's side wiring harness to blue/red to Main Board.



Coach Light Trigger Wire

· Purple/white (heavy gauge) wire located on the driver's side wiring harness to brown/white to Main Board.

Wire and Harness Location · Color · Function

Under The Hood

red #8	gauge power 12v
red #8	gauge power 12v
blue/orange	solenoid trigger
green/white	voltage sensor
blue/white	vacuum switch

Passenger Side · Divider

Plug 1

1	black	ground
2	black	ground
3	green/orange	halo
4		

Plug H

1	black	ground
2	black	ground
3	black	ground
4	speaker (-)	front left
5	speaker (-)	front right
6	green/yellow	vanity mirror
7	black/blue	factory dome & floor lights
8		
9	speaker (+)	front left
10	speaker (+)	front right
11	yellow/red	acc/power point
12	brown	coach light
13	yellow	radio memory
14	white/blue	reading lights
15	red	radio 12v acc.

Plug E

1	black	ground
2	orange/black	console
3	red/green	floor light
4	red/black	TV power
5	green/orange	accent light
6	yellow/red	power point
7	speaker (+)	rear right
8	speaker (-)	rear right
9		
10		
11	speaker (+)	rear left
12	speaker (-)	rear left

Plug M

1	black	ground
2	blue/yellow	color wheel

Drivers Side · Divider

Plug 2

1	black	ground
2	black	ground
3	green/orange	halo
4		

Plug F1

1	black/white	sunroof
2	violet/white	constant power
3	green	sunroof
4	red/white	12v Accessory

Plug F2

1	black	ground
2	white/blue	no smoking light
3	blue/yellow	illuminator motor

Plug L

purple/black	intercom
black	ground

Plug B

1	black	ground
2	orange/black	console light
3	red/green	floor light
4	red/black	TV power
5	green/orange	accent light
6		

Plug LTV/R (4 pin plug)

1	black	ground
2	red/black	tv/vcr
3	orange	a/c 2
4	brown	coach lights

NOTE: Please refer to Wire Routing Main Harness on page 28.

Center · Divider

Plug P3

1	black	ground
2	red/green	floor lights

Plug C

1	white/brown	privacy divider
2	white/green	glass divider
3	blue/brown	privacy divider
4	blue/green	glass divider

Plug P

1	black	ground
2	blue/yellow	color wheel
3	green/orange	color wheel motor

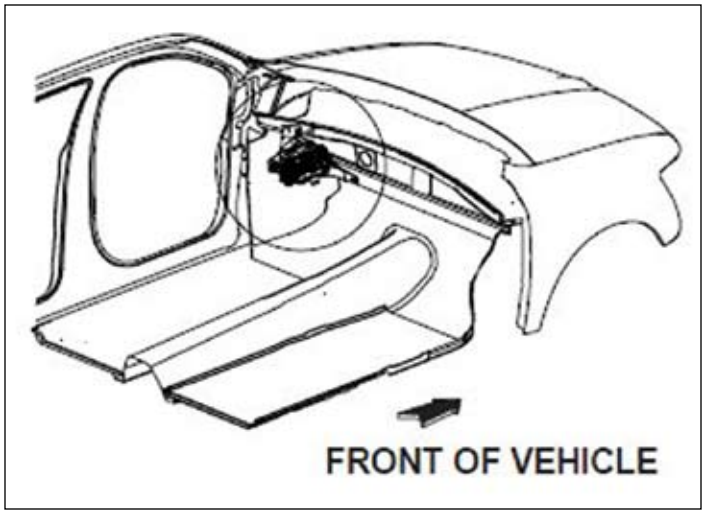
Plug N

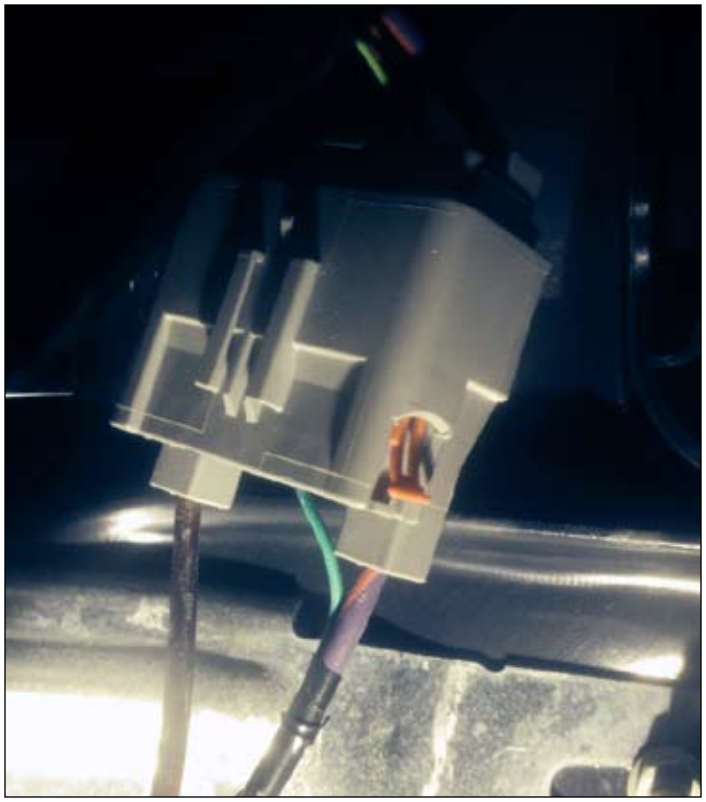
1	black	ground
2	red/black	tv/vcr

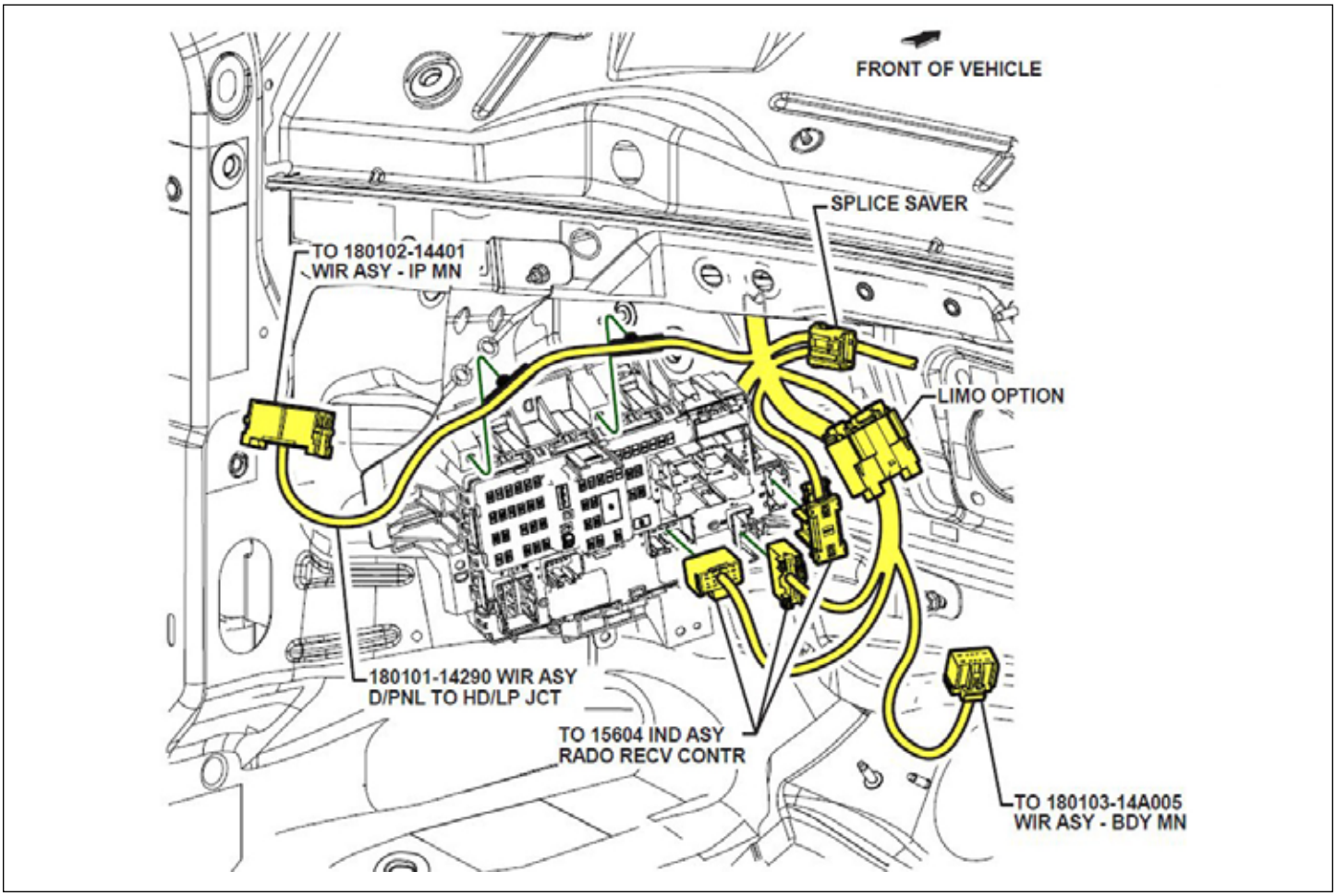
NOTE: Please refer to Wire Routing Main Harness on page 29.

Power Connector

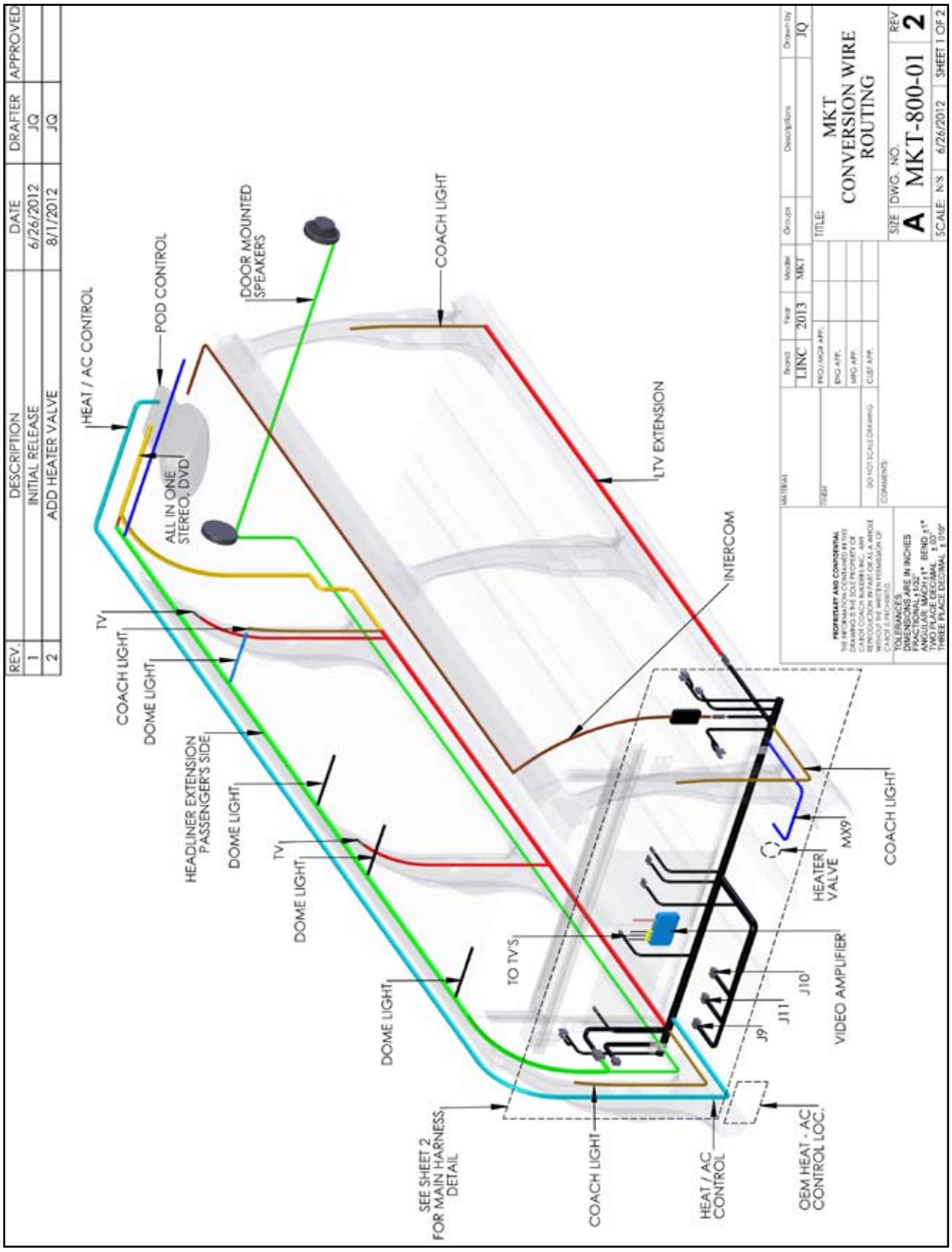
The 13 pin limousine power connector is located close to the steering column. This connection supplied by Lincoln eliminates the need for any under the hood electrical connections. The power connector contains various power feeds and inputs for limousine accessories. This connector supplies power for the main limousine control board.



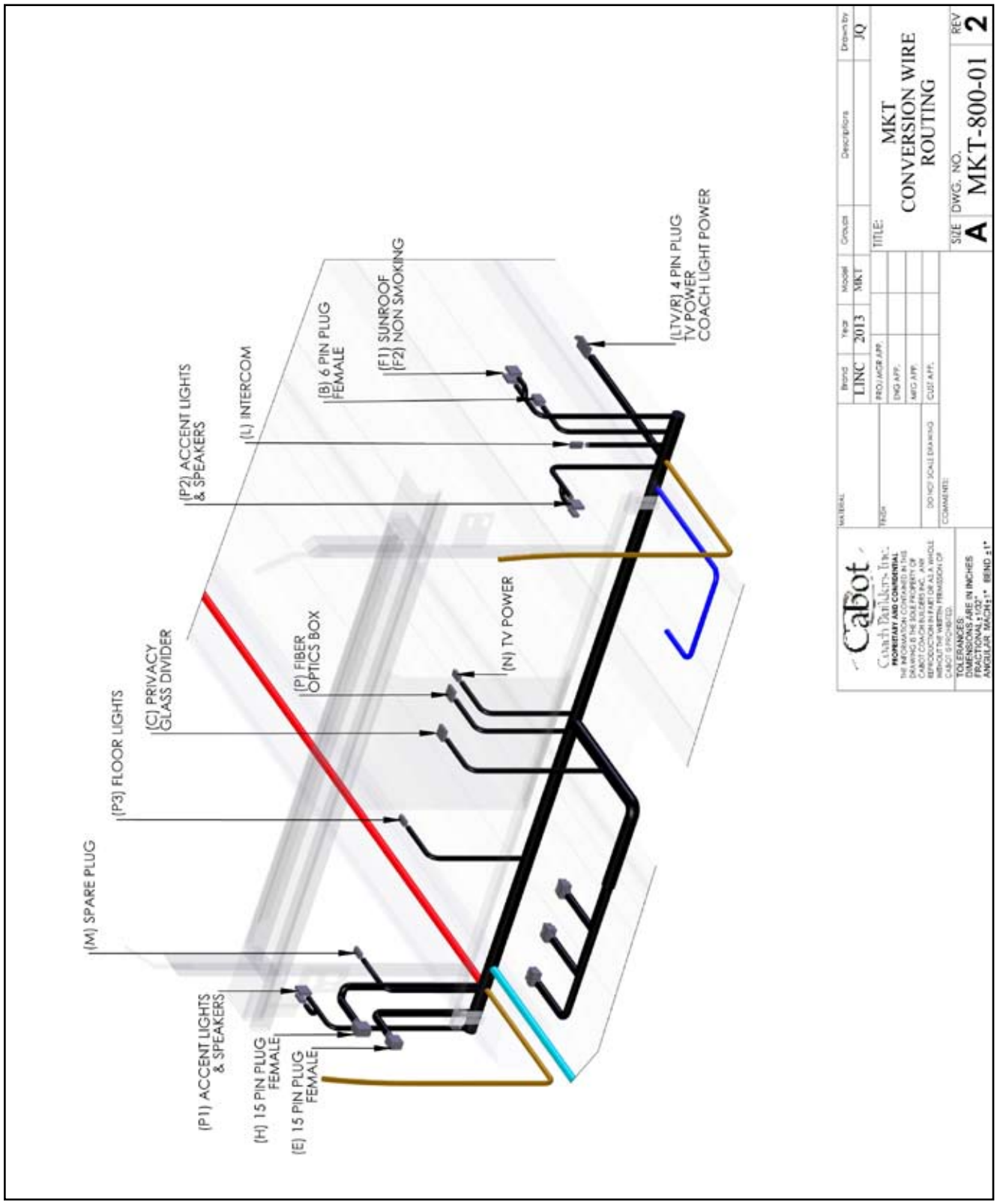




Wire Routing Extension · MKT



Wire Routing Main Harness · MKT



Manual Heater Control Valve Operation (Optional)

Your limousine is equipped with a manual heater control valve (see picture A right) and an electric operated heater control valve. The manual valve was installed to ensure maximum performance of your air conditioning system during times of high ambient temperatures. The manual valve will shut off flow of all hot water to the heat exchanger located in the heating/ cooling system servicing the rear passenger cabin.

Accidental flow of hot water into the system, either by the electric valve leaking or inadvertent activation of the heater control by a passenger or driver, will be eliminated by using the manual heater control valve.

To shut hot water flow off during high temperature conditions turn the manual heater valve to the OFF position (see picture B below). During cooler temperature conditions turn the manual heater control valve to the ON position (see picture C below).

Picture A - manual heater control valve is located behind drivers seat

Picture B -manual valve in off position stops hot water flow

Picture c - manual valve in on position allows hot water flow

NOTE: Rear Heat Operation requires both the manual and electric valves to be open. The manual valve is opened manually (see above) and the electric valve is opened by turning on the Royale heat. This allows free flow of hot water and both the factory rear and Royale heat will work.

The system will function properly between heat and air conditioning with the valve in the ON position but it should be reset to OFF during extended periods of high ambient temperature. Without setting the valve to ON your rear heat will not work.

New Vehicle Limited Warranty · United States Only

Royale warrants each new conversion to be free from defects in material and workmanship under this warranty being limited to making good at the factory, or an authorized repair facility, to the original purchaser, any part or parts thereof which shall, within twenty-four (24) months after delivery of such vehicle or before such vehicle has been driven fifty thousand (50,000) miles, whichever event shall first occur and which upon examination shall disclose to our satisfaction to have been defective. Royale warrants its structural modifications for 60 months or 150,000 miles whichever shall occur first. This warranty being expressly in lieu of all other warranties, expressed or implied. This warranty shall not apply to any body part or parts which have been repaired or altered outside of the manufacturer's factory in any way so as in the judgment of the manufacturer to affect its stability and reliability, nor which has been subjected to misuse, negligence or accident.

Royale makes no warranty whatsoever to any OEM chassis or chassis part, not modified by Royale.

Royale reserves the right to make changes in design, and changes or improvements on its product without imposing any obligation upon itself to install the same on products theretofore manufactured.

All claims for warranty adjustments must originate within the warranty period as stated herein, and must be authorized through Royale.

All outside purchased parts such as heater motors, batteries, moon roofs, TV's, radios, VCRs, or any other electrical operated apparatus are to be warranted through their manufacturer.

The 120" MKT trunk is rated for a maximum luggage capacity of 100 lbs. The spare tire and jack are included with these vehicles but must be removed to keep these vehicles within the limits of the gross vehicle weight rating established by Ford Motor Company.

Royale must be notified before any warranty repair work is performed.

Royale reserves the right to alter or make substitutions to any vehicle standard or optional equipment or vehicle design, or to alter the terms of its warranty at any time without prior notice.

Royale

WHERE CRAFTSMANSHIP COUNTS™

a Cabot Coach Builders Company

NOTE: It is important that you contact our Warranty Department before any warranty repair work is performed.

Contact the Warranty Department for your authorization at 978.374.4530 or service@royalelimo.com

New Vehicle Limited Warranty · International

Royale warrants each new conversion to be free from defects in material and workmanship under this warranty being limited to making good at the factory, or an authorized repair facility, to the original purchaser, any part or parts thereof which shall, within twelve (12) months after delivery of such vehicle or before such vehicle has been driven twenty-four thousand (24,000) miles, whichever event shall first occur and which upon examination shall disclose to our satisfaction to have been defective. Royale warrants its structural modifications for 60 months or 150,000 miles whichever shall occur first. This warranty being expressly in lieu of all other warranties, expressed or implied. This warranty shall not apply to any body part or parts which have been repaired or altered outside of the manufacturer's factory in any way so as in the judgment of the manufacturer to affect its stability and reliability, nor which has been subjected to misuse, negligence or accident.

Royale makes no warranty whatsoever to any OEM chassis or chassis part, not modified by Royale.

Royale reserves the right to make changes in design, and changes or improvements on its product without imposing any obligation upon itself to install the same on products theretofore manufactured.

All claims for warranty adjustments must originate within the warranty period as stated herein, and must be authorized through Royale. All warranted parts are shipped freight prepaid and all parts returned to Royale are to be returned freight prepaid.

All outside purchased parts such as heater motors, batteries, moon roofs, TVs, radios, VCRs, or any other electrical operated apparatus are to be warranted through their manufacturer.

The 120" MKT trunk israted for a maximum luggage capacity of 100 lbs. The spare tire and jack are included with these vehicles but must be removed to keep these vehicles within the limits of the gross vehicle weight rating established by Ford Motor Company and General Motors Corporation.

Royale must be notified before any warranty repair work is performed.

Royale reserves the right to alter or make substitutions to any vehicle standard or optional equipment or vehicle design, or to alter the terms of its warranty at any time without prior notice.

Royale

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